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ABSTRACT OF THE DISCLOSURE

A DS-CDMA (Direct Sequence-Code Division Multiple interference cancels canceller multi-user Access) interference waves of a plurality of users. The DS-CDMA variable gain controller for comparing includes reception characteristics of reception signals received from the plurality of users prior to interference cancellation processing with reception characteristics interference cancellation processing and upon the evaluating a comparison result, and controlling gains prior to baseband decoding of the reception signals so as to maximize improvements of the reception characteristics of the reception signals on the basis of an evaluation A CDMA multi-user system using the above result. canceller is also disclosed.